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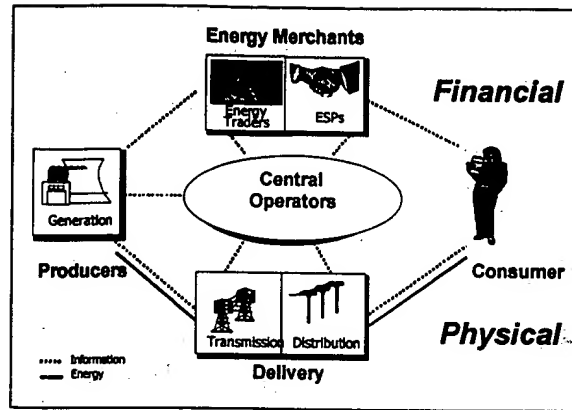


Figure 1

09421713-102099



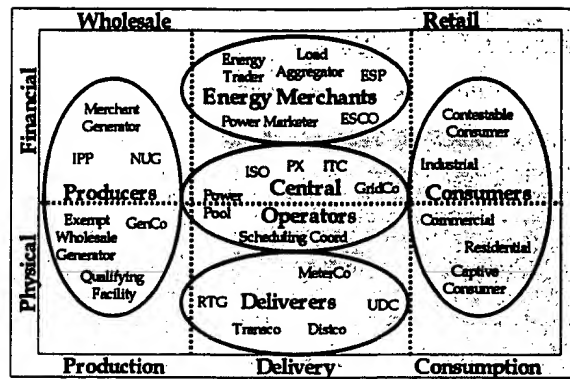
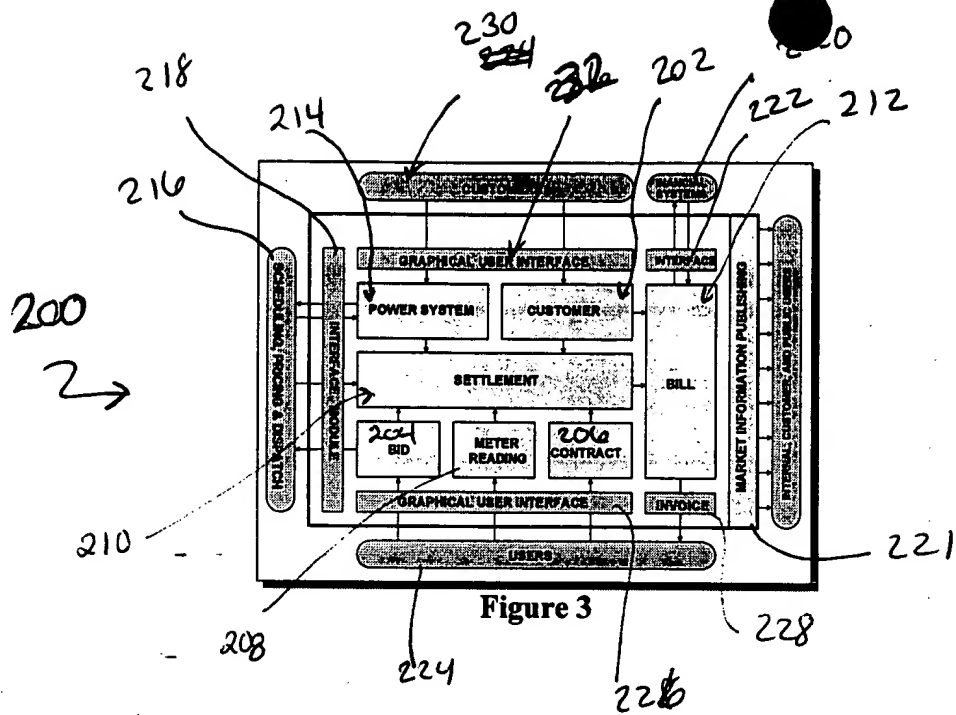
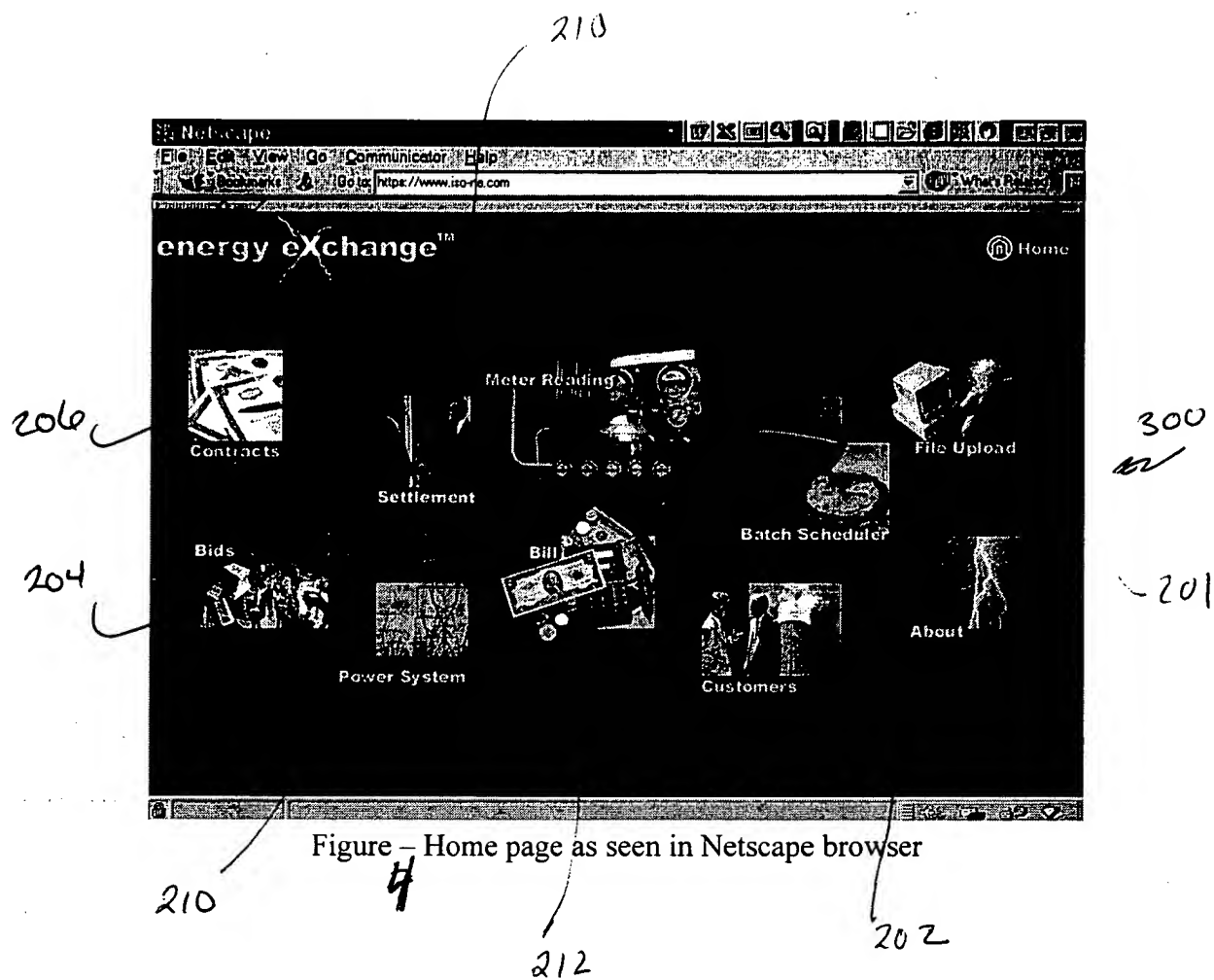


Figure 2



09421713-102099



**Bid Information** | **Energy** | **AGC** | **Reserve** | **Capability** | **Resource Characteristics** | **Maintenance**

**Current Date:** Nov 10, 1998

**Participant:** Cadillac Gen Co.

**1. Enter Customer Search Criteria**  
☒ Customer ID \*  
☐ Customer Name  
 As of: 11/10/1998

**2. Find**

**3. Select Customer**

Identifier	Name
903	Cadillac Gen Co.
904	Mustang Retail Co.
905	Rolls Royce Utility

OK

**Date Range**

**Bid Submission Deadlines**

Energy Market	12:00	Nov 12, 1998 - Nov 21, 1998
AGC Market	12:00	Nov 12, 1998 - Nov 21, 1998
Reserve Market	12:00	Nov 12, 1998 - Nov 21, 1998
Operable Capability Market	12:00	Nov 12, 1998 - Nov 21, 1998
Installed Capability Market	12:00	Dec 1, 1998 - Sep 1, 1999
Resource Characteristics	12:00	Nov 12, 1998 - Nov 21, 1998

FIG. 5



Bids



Bid Information Energy AGC Reserve Capability Resource Characteristics Maintenance

Start Helper Edit

1. Select Bidding Action

Create new bid from scratch

2. Select Type of Bid

Normal

3. Select Dispatch Date

Nov 12, 1998

4. Choose Unit or Load

☒ Unit ☐ Dispatchable Load

AVALANCHE GAS

Next

Submit

Clear All

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Bid Information | Energy | AGC | Reserve | Capability | Resource Characteristics | Maintenance

Start | Helper | Edit

4. Enter Data

Bid Helper  
 Block Selection:   
 Bid Block:   
 Begin (hour/ending):  0100  
 End (hour/ending):  2400  
 Grid Column:  2  
 Amount (M00):   
 Price (\$):

Enter Normal bid for Cadillac Gen Co., AVALANCHE GAS Unit for Nov 12, 1998

Hr End	SS	LOL	HQIL	100	434	Total
0100	0	60	534	15.0	25.0	534
0200	0	60	534	15.0	25.0	
0300	0	60	534	15.0	25.0	
0400	0	60	534	15.0	25.0	
0500	0	60	534	15.0	25.0	
0600	0	60	534	15.0	25.0	
0700	0	60	534	15.0	25.0	
0800	0	60	534	15.0	25.0	
0900	0	60	534	15.0	25.0	
1000	0	60	534	15.0	25.0	

Claimed Low Limit (M00)  60.0 Seasonal Claimed Capability (M00)  534.0

Submit | Clear All | Reset

Energy Bid Submission Confirmation	
<p>Asset Identifier: 101            Asset Type: Generating Unit            Date: Nov 12, 1998            Submitted on: Tue Nov 10 17:39:41 EST 1998            Validation Status: Success            Validation Message: Validation successful            Process Status: Success            Process Message: Processing Successful.</p>	
<p>Signed by: ISO New England</p>	
Claimed Low Limit (MW)	Seasonal Claimed Capability (MW)
60.0	53.0
<p>Save OK</p>	

Fig. 8



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Home

Bid Information Energy AGC Reserve Capability Resource Characteristics Maintenance

Start Helper Edit

1. Select Bidding Action

Create new bid from scratch

2. Select Dispatch Date

Nov 12, 1998

3. Choose Unit

AVALANCHE GAS

Next

Submit Clear All Reset

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Bid Information
 Energy
 AGC
 Reserve
 Capability
 Resource Characteristics
 Maintenance

Enter AGC bid for Cadillac Gen Co., AVALANCHE GAS Unit for Nov 12, 1998

4. Enter Data

Bid Helper
 Begin (hour,ending)
 End (hour,ending)
 Price (\$)

0100
 2400

Hr End
 AGC (\$/hr)

0100	22.0
0200	22.0
0300	22.0
0400	22.0
0500	22.0
0600	22.0
0700	22.0
0800	22.0
0900	22.0
1000	22.0
1100	22.0
1200	22.0

Edit Bid
 Edit AGC Characteristics

100

Submit
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FIG. 10





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Bid Information Energy AGC Reserve Capability Resource Characteristics Maintenance

Start Helper Edit

1. Select Bidding Action

Create new bid from scratch

2. Select Type of Reserve Bid

10 Min Spinning (TMSR)

3. Select Dispatch Date

Nov 12, 1998

4. Choose Unit or Load

Unit Dispatchable Load

AVALANCHE GAS

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5. Enter Data

Bid Helper

Begin (hour ending)   
 End (hour ending)   
 Price (\$)

Enter 10 Min Spinning (TMSR) Reserve bid for Cadillac Gen Co., AVALANCHE GAS Unit for Nov 12, 1998

Hr/End	TMSR (\$/MWh)
0100	15.55
0200	15.55
0300	15.55
0400	15.55
0500	15.55
0600	15.55
0700	15.55
0800	15.55
0900	15.55
1000	15.55
1100	15.55
1200	15.55

F16.13





Bid Information Energy AGC Reserve Capability Resource Characteristics Maintenance

Start Helper Edit

1. Select Bidding Action

Create new bid from scratch

2. Select Market

☒ Operable Capability

☐ Installed Capability

3. Select Dispatch Date

Nov 12, 1998


Next

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Home

Bid Information

Energy

AGC

Reserve

Capability

Resource Characteristics

Maintenance

Start

Edit

1. Select Submission Action

Edit an existing

2. Select Dispatch Date

Nov 12, 1998

3. Select Unit or Load

☒ Unit ☐ Dispatchable Load

AVALANCHE GAS

Next

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Bids

Home

Bid Information | Energy | AGC | Reserve | Capability | Resource Characteristics | Maintenance

Start | Edit

## 1. Select Submission Action

Edit an existing

## 2. Select Dispatch Date

Nov 12, 1998

## 3. Select Unit or Load

☒ Unit☐ Dispatchable Load

AVALANCHE GAS

Next

Submit

Clear All

Reset

Enter characteristics for Cadillac Gen Co., AVALANCHE GAS Unit for Nov 12, 1998

## Unit Characteristics

Minimum Run Time (hr)

22

Minimum Shutdown Time (hr)

24

Startup Time From Cold Conditions (hr)

5

Shutdown Time Cold Conditions Applies (hr)

25

Startup Time From Hot Conditions (hr)

5

Manual Response Rate (MW/min)

3.4

Hours Of Startup

0

Startup Profile

## Reserve Capability When Off-Line

MW Available In 10 Minutes

10.0

MW Available In 30 Minutes

15.0

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Bids

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## Bid Parameters

### Select Action

☒ Edit Existing Parameters☐ Create New Parameters

Effective From:

Nov 11, 1998

Next

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Fig. 18

Bid Information | Energy | AGC | Reserve | Capability | Resource Characteristics | Maintenance

### Bid Parameters

#### Select Action

☒ Edit Existing Parameters

☐ Create New Parameters

#### Effective From:






Effective From: Nov 10, 1998 To: Nov 17, 1998

#### Bid Submission Deadline

Energy Market

Reserve Market

AGC Market

Installed Capability Market

Operable Capability Market

Resource Characteristics

#### Other Parameters

Number of Advance Bids that can be submitted

Number of Prior Bids that can be retrieved

Maximum High Operating Limit percentage over Seasonal Claimed Capability

Make Modification Effective From:

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New Search Result Helper

## 1. Select Contract Type

Internal  
External

Unit  
Load  
System  
Obligation

## 2. Select Market Product(s)

Energy  
AGC  
OPCAP  
ICAP  
TMSR  
TMNSF  
TMOR

## 3. Specify Contract Duration (Hour Ending)

Begins 12/15/1998 01:00  
Ends 12/15/1998 24:00

Life of the Unit/Load

Next

Clear All

Submit

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## Contracts



New Search Result Help

### 1. Select Contract Type

☒ Internal  
☐ External

☒ Unit  
☐ Load  
☐ System  
☐ Obligation

### 2. Select Market Product(s)

☒ Energy  
☐ AGC  
☐ OPCAP  
☐ ICAP

☐ TMSR  
☐ TMNSF  
☐ TMOR

### 3. Specify Contract Duration (Hour Ending)

Begins: 12/15/1998 01:00  
 Ends: 12/15/1998 24:00

☐ Life of the Unit/Load

Next

Clear All

Submit

Contract ID

Parties

Seller: Cadillac Gen Co.  
 Buyer: Mustang Retail Co.

☐ With Pre-determined Condition (for ext. purchases)

Reference ID: 12345

Non-Standard ID: 87890

ICAP Contract ID

Hydro-Quebec

Not Applicable to Hydro Quebec

General Info

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Schedule Info

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1. Select Contract Type

☒ Internal  
☐ External

☒ Unit  
☐ Load  
☐ System  
☐ Obligation

2. Select Market Product(s)

☒ Energy  
☐ AGC  
☐ OPCAP  
☐ ICAP

☐ TMSR  
☐ TMNSF  
☐ TMOR

3. Specify Contract Duration (Hour Ending)

Begins: 12/15/1998 01:00  
 Ends: 12/15/1998 24:00

☐ Life of the Unit/Load

Clear All

Submit

[General Info](#) | [Details](#) | [Schedule Info](#) | [Pre-Determined Cond](#) | [ICAP Adj](#)

Enter Asset Contract Details:

Asset Name: AVALANCHE GAS  
 Asset Percentage (%): 25.5  
 (Percent carried to 4 decimal places, e.g. 80.1234)

Home

Contracts

Based on

☒ Unit
 ☐ External Contract

Enter Unit ID

Units Selected

☒ Availability
 ☐ Generation

☒ EN
 ☐ AN
 ☐ OR

Amount (MW)

1. Select Contract Type

☒ Internal
 ☐ External

☒ Unit
 ☐ Load
 ☐ System
 ☐ Obligation

2. Select Market Product(s)

☒ Energy
 ☐ AGC
 ☐ OPCAP
 ☐ ICAP

☐ TMSR
 ☐ TMNSF
 ☐ TMOR

3. Specify Contract Duration (Hour Ending)

Begins

12/15/1998

01:00

Ends

12/15/1998

24:00

Life of the Unit/Load

Next

Clear All

Submit

General Info

Details

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ICAP Adj

ID	Type	Comparison	Power	Condition
Unit: 102	Availability	>=	5.65	END

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Fig. 2.3





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New Search Result Helper

## 1. Select Contract Type

☐ Internal  
☐ External☐ Unit  
☐ System w/ Unit Char.  
☐ System ☐ Firm

## 2. Select Market Product(s)

☐ ICAP☒ Energy 1

(sold out of Op. Reserve &amp; no OpCap)

☐ Energy 2

(not sold out of Op. Reserve &amp; w/ OpCap)

## 3. Specify Contract Duration (Hour Ending)

Begins 12/15/1998 01:00

Ends 12/15/1998 24:00

☐ Life of the Unit/Eoak

Next

General Info Details Schedule Info Pre-Determined Cond ICAP Adj

Clear All

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New Search Result Help

**1. Select Contract Type**☒ Internal  
☐ External☐ Unit  
☐ System w/ Unit Char  
☒ System ☐ Firm**2. Select Market Product(s)**☒ ICAP☒ Energy 1

(sold out of Op. Reserve &amp; no OpCap)

☐ Energy 2

(not sold out of Op. Reserve &amp; w/ OpCap)

**3. Specify Contract Duration (Hour Ending)**

Begins 12/15/1998 01:00

Ends 12/15/1998 24:00

☐ Life of the Unit/Year

Next

Clear All

Submit

Contract ID

Parties

☒ Seller

Mercedes Utility

☐ Buyer

New York

☐

With Pre-determined Condition (forced purchase)

Reference ID 1234

Non-Standard ID

56789

ICAP/Contract ID

Hydro-Quebec

Not Applicable to Hydro Quebec

General Info

Details

Schedule Info

Pre-Determined Cond

ICAP Adj

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## Contracts



New	Search	Result	Helper
-----	--------	--------	--------

### 1. Select Contract Type

Internal ☐ External ☐

Unit ☐ System w/ Unit Char. ☐ System ☐ Firm ☐

## 2. Select Market Product(s)

TCAP			
Energy 1	✓		
(sold out of Op. Reserve & no OpCap)			
Energy 2			
(not sold out of Op. Reserve & no OpCap)			

### 3. Specify Contract Duration (Hour Ending)

<b>Begins</b>	12/15/1998	01:00	Next
<b>Ends</b>	12/15/1998	24:00	

Clear All Submit

**Submit**

<b>Date</b>	12/15/1998	<input type="radio"/> Dispatchable	<input checked="" type="radio"/> Must Take	<input type="radio"/> Combo
-------------	------------	------------------------------------	--------------------------------------------	-----------------------------

Enter MW Amounts (in header row) and Rates in \$ (in remaining rows):

[illegible]
**Short Notice**

## Apply the data to:

☐ All Weekdays (Mon-Fri)  
☐ All Weekends (Sat & Sun)

**Apply Now**

General Info	Details	Schedule Info	Pre-Determined Cond	ICAP Adj
--------------	---------	---------------	---------------------	----------

Pre-Determined CondICAP Adj

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Search

Result

Helper

## 1. Select Contract Type

☐ Internal☐ External☐ Unit☐ System w/ Unit Char.☐ System☐ Firm

## 2. Select Market Product(s)

☐ ICAP☒ Energy 1

(sold out of Op. Reserve &amp; no OpCap)

☐ Energy 2

(not sold out of Op. Reserve &amp; w/ OpCap)

## 3. Specify Contract Duration (Hour Ending)

Begins 12/15/1998

01:00

Ends 12/15/1998

24:00

☐ Life of the Unit/Load

Next

Based on

☒ Unit☐ External Contract

Enter Unit ID

Units Selected

☒ Availability☒ EN☐ AN☐ OR☒ >=

Amount (MWh)

(Up to 3 decimal places)

Add to List

ID

Unit: 103

Type

Availability

Comparison

&gt;=

Power

10.25

Condition

END

Clear All

Submit

Remove from List

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Contracts



New Search Result Helper

1: Select Criteria  
Choose at least one:

☐ Contract ID  
☐ Reference ID  
☒ Type: ☐ Internal ☐ External  
☐ Unit ☐ System ☐ Obligation

Optional:  
☐ Party: Seller Nm Buyer Nm  
☐ Market Product: Energy  
☐ Duration: Begins Ends

Find

Clear All

Submit

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ICAP Adj

2. 51 of Existing Contract

Contract ID	Reference ID	Int/Ext
510		Internal
511		Internal
512		Internal
513		Internal
514		Internal
515		Internal
6486	12345	Internal
6326		Internal
6327		Internal
6346		Internal
6366		External
6386	SNTAfterNoon	External
6387	SNTAfterNoon	External

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FIG. 32



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## Customers



New Existing

Search On

☐ Name: C\*  
☐ ID  
 As of: 11/10/1998

Name	ID
Cadillac Gen Co.	903

OK

### Customer Detail

Customer Type

☒ Participant  
☐ Non-Participant  
☐ Pool Operator

### Governance Requirements Status

☐ All Requirements Participant

### Pool Status

☒ Active  
☐ Suspended  
☐ Terminated

### Settlement Status

☒ Will Be Settled  
☐ Special Contract Processing (HID)  
☒ Has Voting Share

General Address Contact Duns Related Assets Governance  
 Customer ID 903 As of 11/11/1998  
 Customer Name Cadillac Gen Co. End / / Submit Reset

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New Existing

Search On: Name

Name: C\*

ID: 11/10/1998

As of: 11/10/1998

Find

Name	ID
Cadillac Gen Co.	903

OK

[illegible]





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## Customers



New Existing

Search On

Name

ID

As of:

11/10/1998

Find

Name

Cadillac Gen Co.

ID

903

OK

Duns

Number

Add

Effective From/To

As of

11/11/1998

End

Duns Number

11-223-3445

From

11/11/1998

To

Remove

General

Address

Contact

Duns

Related

Assets

Governance

Customer ID:

903

As of

11/11/1998

Customer Name

Cadillac Gen Co.

End

/ /

Submit

Reset

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Customers



New Existing

Search On

Name

ID

As of:

11/10/1998

Find

Name

Cadillac Gen Co.

ID

903

OK

To associate this customer with other existing customers, select the appropriate customer from the customer list table, set the effective date, and click "Add".

Name

ID

\*

Find

Effective From/To

From 11/11/1998

To 12/9/1998

Add

Remove

Name

Cadillac Gen Co.  
Mustang Retail Co.  
Rolls Royce Utility

ID

903  
904  
905

Related Customer Name

From

To

Mustang Retail Co.

11/06/1998

11/07/1998

General

Address

Contact

Duns

Related

Assets

Governance

Customer ID

903

AS of

11/11/1998

End

11/11/1998

Submit

Reset

Customer Name

Cadillac Gen Co.

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New Existing

Search On

Name

C\*

ID

As of:

11/10/1998

Find

Name

Cadillac Gen Co.

ID

903

OK

Assets

For additional information on to assign an asset, go to  
"Power System Maintenance"

Asset Name	Type	Type of Responsibility	% Own d
PANTHER P/S PUMP	Load Facility		40.0
AVALANCHE GAS	Generating Unit	Lead Participant / Meter Reader	5.0E-4
MIGHTY DUCK LOAD	Load Facility		19.0001
PANTHER P/S GEN	Generating Unit		80.9999

General

Address

Customer ID

903

Contact

Cadillac Gen Co.

Duns

Related

Assets

Governance

As of

11/11/1998

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/ /

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New Existing

Search On

☐ Name☐ ID

As of:

11/10/1998

Find

Name

Cadillac Gen Co.

ID

903

OK

Governance

For the month of:

October

1998

Peak Load (P)

10.0

Total Load (E)

50.

Generation Ownership (G)

150.

Entitlements (X)

75.

Transmission KV Miles (M)

5,799

Transmission Revenue Requirement (R) \$

60.00

Submit

Reset

Clear

Contact

Duns

Related

Assets

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User Profile

Agent

Customer ID

903

As of

11/11/1998

Customer Name

Cadillac Gen Co.

End

/ /

Submit

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New Existing

Search: On

Name

ID

As of:

11/10/1998

Find

Name

ID

Cadillac Gen Co.

903

OK

## User Profile Maintenance

User ID

555555555

Find

User Name

test

Begin Date

11/11/1998

End

Access Area

Modify View None

Customer

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Bidding Info

Bidding Maint

Contract

Bill

Settlement

Pricing

Set Job Sub

Billing Job Sub

Gov Job Sub

Metering

Operations

Users List

555555555

Add

Remove

Submit

Reset

Contact

Duns

Related

Assets

Governance

User Profile

Agent

Customer ID

903

As of

11/11/1998

End

/ /

Customer Name

Cadillac Gen Co.

Customer Name

Cadillac Gen Co.

As of

11/11/1998

End

/ /

Customer Name

Cadillac Gen Co.

As of

11/11/1998

End

/ /

Customer Name

Cadillac Gen Co.

As of

11/11/1998

End

/ /

Customer Name

Cadillac Gen Co.

As of

11/11/1998

End

/ /

Customer Name

Cadillac Gen Co.

As of

11/11/1998

End

/ /

Customer Name

Cadillac Gen Co.

As of

11/11/1998

End

/ /

Customer Name

Cadillac Gen Co.

As of

11/11/1998

End

/ /

Customer Name

Cadillac Gen Co.

As of

11/11/1998

End

/ /

Customer Name

Cadillac Gen Co.

As of

11/11/1998

End

/ /

Customer Name

Cadillac Gen Co.

As of

11/11/1998

End

/ /

Customer Name

Cadillac Gen Co.

As of

11/11/1998

End

/ /

Customer Name

Cadillac Gen Co.

As of

11/11/1998

End

/ /

Customer Name

Cadillac Gen Co.

As of

11/11/1998

End

/ /

Customer Name

Cadillac Gen Co.

As of

11/11/1998

End

/ /

Customer Name

Cadillac Gen Co.

As of

11/11/1998

End

/ /

Customer Name

Cadillac Gen Co.

As of

11/11/1998

End

/ /

Customer Name

Cadillac Gen Co.

As of

11/11/1998

End

/ /

Customer Name

Cadillac Gen Co.

As of

11/11/1998

End

/ /

Customer Name

Cadillac Gen Co.

As of

11/11/1998

End

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Customer Name

Cadillac Gen Co.

As of

11/11/1998

End

/ /

Customer Name

Cadillac Gen Co.

As of

11/11/1998

End

/ /

Customer Name

Cadillac Gen Co.

As of

11/11/1998

End

/ /

Customer Name

Cadillac Gen Co.

As of

11/11/1998

End

/ /

Customer Name

Cadillac Gen Co.

As of

11/11/1998

End

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Customer Name

Cadillac Gen Co.

As of

11/11/1998

End

/ /

Customer Name

Cadillac Gen Co.

As of

11/11/1998

End

/ /

Customer Name

Cadillac Gen Co.

As of

11/11/1998

End

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Customer Name

Cadillac Gen Co.

As of

11/11/1998

End

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Customer Name

Cadillac Gen Co.

As of

11/11/1998

End

/ /

Customer Name

Cadillac Gen Co.

As of

11/11/1998

End

/ /

Customer Name

Cadillac Gen Co.

As of

11/11/1998

End

/ /

Customer Name

Cadillac Gen Co.

As of

11/11/1998

End

/ /

Customer Name

Cadillac Gen Co.

As of

11/11/1998

End

/ /

Customer Name

Cadillac Gen Co.

As of

11/11/1998

End

/ /

Customer Name

Cadillac Gen Co.

As of

11/11/1998

End

/ /

Customer Name

Cadillac Gen Co.

As of

11/11/1998

End

/ /

Customer Name

Cadillac Gen Co.

As of

11/11/1998

End

/ /

Customer Name

Cadillac Gen Co.

As of

11/11/1998

End

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Customer Name

Cadillac Gen Co.

As of

11/11/1998

End

/ /

Customer Name

Cadillac Gen Co.

As of

11/11/1998

End

/ /

Customer Name

Cadillac Gen Co.

As of

11/11/1998

End

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Customer Name

Cadillac Gen Co.

As of

11/11/1998

End

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Customer Name

Cadillac Gen Co.

As of

11/11/1998

End

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Customer Name

Cadillac Gen Co.

As of

11/11/1998

End

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Customer Name

Cadillac Gen Co.

As of

11/11/1998

End

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Customer Name

Cadillac Gen Co.

As of

11/11/1998

End

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Customer Name

Cadillac Gen Co.

As of

11/11/1998

End

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Customer Name

Cadillac Gen Co.

As of

11/11/1998

End

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Customer Name

Cadillac Gen Co.

As of

11/11/1998

End

/ /

Customer Name

Cadillac Gen Co.

As of

11/11/1998

End

/ /

Customer Name

Cadillac Gen Co.

As of

11/11/1998

End



# energy exchange<sup>TM</sup>

Customers



Home

New Existing

Search On

Name

C\*

ID

As of:

11/10/1998

Find

Name

Cadillac Gen Co.

ID

903

OK

Agent Maintenance

Name

\*

ID

Find

Name

Mustang Retail Co.

Rolls Royce Utility

Mercedes Utility

Nissan NUG

New York

Hydro-Quebec

ID

904

905

906

908

909

50001

Add

Remove

Effective From/To

From

11/11/1998

End

Agent

Mustang Retail Co.

From

11/10/1998

To

Reset

Submit

Contact

Duns

Related

Assets

Governance

UserProfile

Agent

Customer ID

903

As of

11/11/1998

Customer Name

Cadillac Gen Co.

End

/ /

Submit

Reset

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# energy exchange™

## Power System



Network Area | Network Node | Generating Unit | Load Facility | Tie Line | 42-4101

New Existing Search Results

### Search Results

2 Selected Network Area

Identifier	Description
32	NEPOOL
33	PTF
34	External
35	MEPCO
36	HQ

OK

Submit

Reset

Network Area Identifier: 32

Network Area Description: NEPOOL

This information effective: 11/13/1998

### Network Nodes in this Network Area

Identifier	Description
401	PTF
402	WEST
403	EAST

<< Add

Remove >>

### Network Nodes NOT in this Network Area

Identifier	Description
404	HQIC
405	HQ
406	MEPCO
407	NB
408	NY

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Network Area

Network Node

Generating Unit

Load Facility

Tie Line

New

Existing

Search Results

Find Network Node

1. Enter Search Criteria

Node Identifier \*

Area Identifier

Find

Submit

Reset

Network Node Identifier

402

Network Node Description

WEST

This information effective

11/13/1998

Generating Unit

Generating Units associated with this Network Node

Identifier	Name
103	LIGHTNING HYDR
104	DALLAS STAR

Details

1. Enter Search Criteria

Unit Identifier

Find

2. Select Generating Unit

Identifier	Name	Node
------------	------	------

<< Move

Network Area

Generating Unit

Load Facility

Tie Line

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Network Area

Network Node

Generating Unit

Load Facility

Tie Line

New

Existing

Search Results

Network Node Identifier: 402

Network Node Description: WEST

This information effective: 11/13/1998

## Find Network Node

## 1. Enter Search Criteria

Node Identifier \*

Area Identifier

Node Identifier \*

Area Identifier

Find

Submit

Reset

## Load Facility

Load Facilities associated with this Network Node

Identifier	Name
201	MIGHTY DUCK LO
202	HURRICANE LOAD
206	COYOTE LOAD
1402	402 Losses

&lt;&lt; Move

Details

## 1. Enter Search Criteria

Load Identifier

Find

## 3. Select Load Facility

Identifier Name Id

Network Area Generating Unit Load Facility Tie Line

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[Generating Unit](#)
[Load Facility](#)
[Tie Line](#)

New

Existing

Search Results

Find Network Node

1. Enter Search Criteria

Node Identifier

Area Identifier

Find

Reset

Submit

Find Tie Line

1. Enter Search Criteria

Tie Line Identifier

Find

2. Select Tie Line

Monitor

Receive

<< Move

Details

Identifier	Name	Type
301	Red	Mon
305	Blue	Mon
306	Indigo	Rec
307	Violet	Rec

Network Node Identifier: 402

Network Node Description: WEST

This information effective: 11/13/1998

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## Power System

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[Network Area](#) | [Network Node](#) | [Generating Unit](#) | [Load Facility](#) | [Tie Line](#)
[New](#) | [Existing](#) | [Search Results](#)

Generating Unit Identifier: 101

Generating Unit Name: AVALANCHE GAS

Changes made effective from: 11/13/1998

### Search Results

#### 2. Selected Generating Unit

Id ntifier	Name
101	AVALANCHE GAS
102	PANTHER P/S GEN
103	LIGHTNING HYDRO
104	DALLAS STAR

OK

Submit

Reset

### Network Node Association

Network Node Identifier

403

Details

### Generating Unit Details

Plant Name: X

Operating Status: Active

Type: Gas

Winter Claimed Capability: 534.0 MW

Summer Claimed Capability: 551.37 MW

Claimed Low Limit: 60.0 MW

General

Status

Staffing

Ownership

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Power System

 HomeNetwork Area | Network Node | **Generating Unit** | Load Facility | Tie LineNew | Existing | **Search Results**

Generating Unit Identifier: 101

Generating Unit Name: AVALANCHE GAS

Changes made effective from: 11/13/1998

**Search Results**

## 2. Select Generating Unit

Id ntifier	Name
101	AVALANCHE GAS
102	PANTHER P/S GEN
103	LIGHTNING HYDRO
104	DALLAS-STAR

OK

Submit

Reset

**AGC Market**

Max # of AGC Ranges: 2

**Black Start Capability**☐ Yes☒ No**Market Status****Market**

Energy

AGC

TMSR

TMNSR

TMOR

**Status**

Active

Active

Active

Active

Active

General

Status

Staffing

Ownership

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Power System

 HomeNetwork Area | Network Node | **Generating Unit** | Load Facility | Tie LineNew | Existing | **Search Results**

Generating Unit Identifier:

101

Generating Unit Name:

AVALANCHE GAS

Changes made  
effective from: 11/13/1998**Search Results****2. Select Generating Unit**

Id ntifier	Name
101	AVALANCHE GAS
102	PANTHER P/S GEN
103	LIGHTNING HYDRO
104	DALLAS STAR

OK

Submit

Reset

**Weekly Staffing**

Days	Start Time	Stop Time	Call-In Time	Unstaffed
Weekdays	1900	1900	2.0 hrs	
Saturday	1900	1900	2.0 hrs	
Sunday	1900	1900	2.0 hrs	

Use the same times for all days

All Days

General | Status | Staffing | Ownership

**Contracts****File Upload****Meter Readings****Bids****Bill****Batch Scheduler****Settlement****Power System****Customers****About**



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Power System



Network Area | Network Node | Generating Unit | Load Facility | Tie Line

New | Existing | Search Results

Generating Unit Identifier: 101

Generating Unit Name: AVALANCHE GAS

Changes made effective from: 11/13/1998

## Search Results

2. Select Generating Unit

Identifier	Name
101	AVALANCHE GAS
102	PANTHER P/S GEN
103	LIGHTNING HYDRO
104	DALLAS STAR

OK

Submit

Reset

Customer Name

Ownership Share

Lead Participant

Meter Reader

%

OK

Customer	Share
Cadillac Gen Co.	39.9999
Rolls Royce Utility	60.0001
<b>Total</b>	<b>100.0000</b>

Lead Participant: Cadillac Gen Co.

Meter Reader: Cadillac Gen Co.

1. Enter Customer Search Criteria

☒ Customer ID☐ Customer Name

Find

3. Select Customer

Identifier	Name

OK

General | Status | Staffing | Ownership

Contracts

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Fig 49





Network Area | Network Node | Generating Unit | **Load Facility** | Tie Line

New | Existing | **Search Results**

Changes made effective from: 11/13/1998

Load Facility Identifier: 202

Load Facility Name: HURRICANE LOAD

### Search Results

#### 2. Select Load Facility

Identifier	Name
201	MIGHTY DUCK LOAD
202	HURRICANE LOAD
203	SABRE LOAD
204	FLAME LOAD
205	CAPITAL LOAD
206	COYOTE LOAD

OK

Submit

Reset

#### Load Facility Details

Estimated Peak Load: 1000.0 MW

Operating Status: Active

Type: Normal

Dispatchable

☐ Yes ☒ No

Met

☐ Yes ☒ No

General

Ownership

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## Power System



Network Area | Network Node | Generating Unit | Load Facility | Tie Line

New | Existing | Search Results

Changes made effective from: 11/13/1998

Load Facility Identifier: 202

Load Facility Name: HURRICANE LOAD

### Search Results

2 Selected Load Facility

Id ntifier	Name
201	MIGHTY DUCK LOAD
202	HURRICANE LOAD
203	SABRE LOAD
204	FLAME LOAD
205	CAPITAL LOAD
206	COYOTE LOAD

OK

Submit

Reset

Customer Name

Ownership Share

%

OK

Customer

Share

Mustang Retail Co.

100.0000

Total

100.0000

Lead Participant

Meter Reader

General

Ownership

1. Enter Customer Search Criteria

Customer ID

Customer Name

Find

2. Select Customer

Identifier

Name

OK

Contracts

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Contracts	File Upload	Meter Readings	Bids	Bill
Batch Scheduler	Settlement	Power System	Customers	About

# energy exchange™

Power System



Network Area | Network Node | Generating Unit | Load Facility | Tie Line

New | Existing | Search Results

Changes made effective from:

11/13/1998

Tie Line Identifier: 302

Tie Line Name: Orange

## Search Results

2. Select Tie Line

Id ntifier	Name
301	Red
302	Orange
303	Yellow
304	Green
305	Blue
306	Indigo

OK

Submit

Reset

Customer

Customer Name

Meter/Reader

OK

Meter Reader

Meter Reader

Cadillac Gen Co

1. Enter Customer Search Criteria

Customer ID \*

Customer Name

Find

2. 3. Select Customer

Identifier	Name
903	Cadillac Gen Co.
904	Mustang Retail Co
905	Rolls Royce Utility
906	Mercedes Utility

OK

General

Ownership

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Fig. 5.3



  
**energy exchange™**  
**Batch Scheduler**  
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Billing

Log

**Select a Job:**

- Settle All Hourly Markets
- Settle An Hourly Market
- Settle Installed Capability Market
- Confirm Settlement Data
- Confirm All Hourly Settlement Data
- Prepare Bill
- Print Bill Invoice
- Calculate Governance Variables
- Calculate Voting Shares
- Perform Monthly Meter Adjustment
- Determine Hourly Entitlements

Priority:

☐ High☐ Medium☒ Low

Run on:

//

Market Service

Energy

Begin Date

Energy

Begin Time

AGC

End Date

TMSR

TMNSR

TMOR

Operable Capability

End Time

//

Submit

Clear

Contracts

File Upload

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**Batch Scheduler**



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Select a Job:

- Settle All Hourly Markets
- Settle An Hourly Market
- Settle Installed Capability Market
- Confirm Settlement Data
- Confirm All Hourly Settlement Data
- Prepare Bill
- Print Bill Invoice**
- Calculate Governance Variables
- Calculate Voting Shares
- Perform Monthly Meter Adjustment
- Determine Hourly Entitlements

Priority: ☐ High ☐ Medium ☒ Low

Run on:  /  /

Due Date:  /  /

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General **Billing** Log

Select a Job:

- Settle All Hourly Markets
- Settle An Hourly Market
- Settle Installed Capability Market
- Confirm Settlement Data
- Confirm All Hourly Settlement Data
- Prepare Bill
- Print Bill Invoice
- Calculate Governance Variables
- Calculate Voting Shares**
- Perform Monthly Meter Adjustment
- Determine Hourly Entitlements

Priority: ☐ High  
☐ Medium  
☒ Low

Run on:   
 Begin Date:   
 Begin Time:

Submit Clear

General Billing Log

Process Bills Rollback Bills

Select Billed Services and Data

<input checked="" type="checkbox"/> Energy	Bill Start Date	01/15/1998 01:00:00 AM	Bill End Date	1/15/1998	06:00:00
<input checked="" type="checkbox"/> AGC	Bill Start Date	01/15/1998 01:00:00 AM	Bill End Date	1/15/1998	06:00:00
<input checked="" type="checkbox"/> TMSR	Bill Start Date	01/15/1998 01:00:00 AM	Bill End Date	1/15/1998	06:00:00
<input checked="" type="checkbox"/> TMNSR	Bill Start Date	01/15/1998 01:00:00 AM	Bill End Date	1/15/1998	06:00:00
<input checked="" type="checkbox"/> TMOR	Bill Start Date	01/15/1998 01:00:00 AM	Bill End Date	1/15/1998	06:00:00
<input type="checkbox"/> Installed Capability	Bill Start Date	01/01/1998 00:00:00 AM	Bill End Date	2/1/1998	00:00:00
<input checked="" type="checkbox"/> Operable Capability	Bill Start Date	01/15/1998 01:00:00 AM	Bill End Date	1/15/1998	06:00:00
<input type="checkbox"/> EHV/LV	Bill Start Date	12/01/1997 00:00:00 AM	Bill End Date		
<input type="checkbox"/> Tariff	Bill Start Date	12/01/1997 00:00:00 AM	Bill End Date		
<input type="checkbox"/> Adjustment	Bill Start Date	12/01/1997 00:00:00 AM	Bill End Date		
<input type="checkbox"/> Bill Data	Bill Start Date	12/01/1997 00:00:00 AM	Bill End Date		

Submit

Contracts Batch Scheduler File Upload Settlement Meter Readings Power System Bids Customers Bill About



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Batch Scheduler

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Process Bills
Rollback Bills

Select Billed Services and Data:

<input checked="" type="checkbox"/> Energy	Bill Start Date	01/15/1998 00:00:00 AM	Bill End Date	1/15/1998	01:00:00
<input checked="" type="checkbox"/> AGC	Bill Start Date	01/15/1998 00:00:00 AM	Bill End Date	1/15/1998	01:00:00
<input checked="" type="checkbox"/> TMSR	Bill Start Date	01/15/1998 00:00:00 AM	Bill End Date	1/15/1998	01:00:00
<input checked="" type="checkbox"/> TMSR	Bill Start Date	01/15/1998 00:00:00 AM	Bill End Date	1/15/1998	01:00:00
<input checked="" type="checkbox"/> TMOR	Bill Start Date	01/15/1998 00:00:00 AM	Bill End Date	1/15/1998	01:00:00
<input checked="" type="checkbox"/> Operable Capability	Bill Start Date	01/15/1998 00:00:00 AM	Bill End Date	1/15/1998	01:00:00

Submit

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Apple MAIN APPLE II running





# energy exchange™

## Settlement



Administered Price

Parameter Maintenance

Selection

Market:

Energy

Date:

From: Jan 15, 1998

To:

Jan 15, 1998

00:00

01:00

Retrieve

Submit

### Energy Market Clearing Price

From	To	Price	Type
01/15/1998 0:00	01/15/1998 1:00	65.08	Data Correction

From	To	Clearing Price	Type
01/15/1998 0:00	01/15/1998 1:00	000000065.08	Data Correction

Update

Reset

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Settlement



Administered Price | Parameter Maintenance

Selection

Market:

AGC

Date:

From: Jan 15, 1998

00:00

TO:

Jan 15, 1998

01:00

Retrieve

Submit

## AGC Market Clearing Price

From	To	Price	Type
01/15/1998 0:00	01/15/1998 1:00	50.0	Clearing Price

From	To	Clearing Price	Type
01/15/1998 0:00	01/15/1998 1:00	000000050.00	Clearing Price

Update

Reset

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## Administered Price Parameter Maintenance

Parameter:

Trading Interval

As Of	Market	Length	Measure
01/01/1998 14:17	Energy	1	HOUR

Select Market/Service

Energy  
AGC  
TMSR  
TMNSR  
TMOD

Retrieve

Entering Trading Interval value for Energy

As Of	Market	Length	Measure
12/ 1/1998		0	MINUTE

Add

Reset

Submit

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Administered Price Parameter Maintenance

Parameter:

HQ FEC

As Of	Until	Value
01/01/1998 0:00	01/01/1999 0:00	0.0

Entering Hydro-Quebec Firm Energy Contract Rate Value

As Of	Until	Value
1 / 1/1998	00:00	1 / 1/1999 00:00 0.0

Add

Reset

Submit

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## Administered Price Parameter Maintenance

Parameter: ISO Objective Capability

Date

Year: 1998-1999

OK

Year	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct
1994-1995												
1995-1996												
1996-1997												
1997-1998												
1998-1999	5	10	15	20	25	30	35	40	45	50	55	60

## Entering ISO Objective Capability Value

Year	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct
1998-1999	5	10	15	20	25	30	35	40	45	50	55	60

Add

Reset

Submit

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Administered Price Parameter Maintenance

Parameter:

Phase Out Factor

As Of	Until	Value
12/01/1998 0:00	01/01/1999 0:00	20.0

Entering Phase Out Factor Value

As Of	Until	Value
12/1/1998	00:00	1/1/1999
	00:00	20.0

Add

Reset

Submit

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 **energy exchange™** Settlement Home

## Administered Price Parameter Maintenance

Parameter:

New Unit Adj. Factor

Date

From:

Dec 1, 1998

00:00

To:

Jan 1, 1999

00:00

OK

Select Asset

PANTHER P/S PUMP

LIGHTNING HYDRO

PANTHER P/S GEN

AVALANCHE GAS

MUSKIE RIVER LOAD

Retrieve

As Of	Until	Value
12/01/1998 0:00	01/01/1999 0:00	20.0

## Entering New Unit Adjustment Factor value for PANTHER P/S PUMP

As Of

12/ 1/1998

00:00

Until

1 / 1/1999

00:00

Value

20.0

Add

Reset

Submit

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## Administered Price Parameter Maintenance

Parameter: Adjusted Monthly Peak

Date

From: Oct 1, 1998

To: Nov 1, 1998

OK

Select Customer

Cadillac Gen Co.  
Mustang Retail Co.  
Rolls Royce Utility  
Mercedes Utility  
Nissan Mfg

Retrieve

As Of

10/1/1998

Until

11/1/1998

Value

30.0

## Entering Adjusted Monthly Peak Load value for Cadillac Gen Co.

As Of

10/1/1998

Until

11/1/1998

Value

30.0

Add

Reset

Submit

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## Administered Price Parameter Maintenance

Parameter:

- Trading Interval
- Trading Interval
- Est. New Unit Adj. Factor
- HQ FEC
- ISO Objective Capability
- Phase Out Factor
- Regs-MW Conv. Factor
- HQ Loss Factor
- MEPCO Loss Factor

Select Market/Service

- Energy
- AGC
- TMSR
- TMNSR
- TMOD

Retrieve

Entering Trading Interval value for Energy

As Of	Market	Length	Measure
12/ 1/1998		0	MINUTE

Add

Reset

Submit

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## Administered Price Parameter Maintenance

## Parameter:

Trading Interval
Maximum Uplift Threshold
New Unit Adj. Factor
Unit Act. Avail. with
Unit Act. Avail. without
Unit Target Availability
Adjusted Monthly Peak
HQ NICC
Outside Trans. Adj.

As Of	Market	Length	Measure
01/01/1998 14:17	Energy	1	HOUR

## Select Market Service

Energy
AGC
TMSR
TMNSR
TMOD

Retrieve

## Entering Trading Interval value for Energy

As Of	Market	Length	Measure
12/1/1998 00:00		0	MINUTE

Add

Reset

Submit

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Adjustments
Market System

New Existing Search Helper

Choose Adjustment Type:  
☒ Balanced  
☐ UnBalanced

Adjustment Date  
11/17/1998 09:32:09

Adjustment Reason  
Reactivation Adjustment

Document Reference  
11-01-98 React Adjust.doc

☒ Enclosure

Adjustment Description  
Cadillac Gen Co was undercharged for past adj

Customer Name	Adjustment Amount (\$)
Cadillac Gen Co	100.00
Mercedes Utility	-100.00

Net Balance  
\$ 0.00

Clear Fields Submit

Adjustments		Market System		Customer Invoice		Invoice Processing Date	
Market System Details						11/17/1998	
Energy	AGC	TMSR	TMNSR	Receivables	Payables		
Catillac Gen Co.	\$ 3,300.00	\$ 0.00	\$ 268.00	\$ 7,011.00			
Mustang Retail Co.	\$ 1474.14	\$ 0.00	\$ 327.58	\$ 6,977.58			
Rolls Royce Utility	\$ 1024.14	\$ 0.00	\$ 56.41	\$ 3,548.57			
Mercedes Utility	\$ 801.71	\$ 5,110.33	\$ 15.17	\$ 3,515.16			
Hydro-Quebec	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00			
NEPOOL	\$ 0.00			\$ 0.00			
Total	\$ 0.00	\$ 0.00	\$ 0.00	\$ 10,528.16	\$ 10,528.16		
						Details	



Adjustments Market System Customer Invoice

Customer Name: Cadillac Gen Co. Net Invoice Total: \$ 11,511.00

Billed Service Date Amount

Energy	01/15/1998 00:00:00-01/15/1998 01:00:00	\$ 3,800.00
Energy Market		\$ 3,800.00
Sum of Energy Settlement		\$ 3,300.00
Sum of Uplift Pmt.		\$ 500.00
Sum of Congestion Uplift Chg.		\$ 0.00
Sum of Uplift Chg.		\$ 0.00
Uplift Charge		\$ 0.00
AGC	01/15/1998 00:00:00-01/15/1998 01:00:00	\$ 0.00
TMSR	01/15/1998 00:00:00-01/15/1998 01:00:00	\$ 4,000.00
TMNSR	01/15/1998 00:00:00-01/15/1998 01:00:00	\$ 256.00
TMOR	01/15/1998 00:00:00-01/15/1998 01:00:00	\$ 50.00
Operable Capability	01/15/1998 00:00:00-01/15/1998 01:00:00	\$ 3,405.00

**energy exchange™**

Meter Reading



Hourly Meter Readings Monthly Meter Readings

Start

Results

1. Select Date

Nov

11

1998

4

3

2. Select Asset Type

All Assets

3. Select Display Criteria

☐ All Assets☐ Assets with missing readings

4. Retrieve Asset List

Retrieve

Select a Company

Cadillac Gen Co.

Clear All

Contracts

File Upload

Meter Readings

Bids

Bill

Batch Scheduler

Settlement

Power System

Customers

About





Meter Reading



Hourly Meter Readings Monthly Meter Readings

Start Results

5. Select Asset Name

Asset Name	Asset Type	Unit
AVALANCHE GAS		

Select a Company

Cadillac Jack Co

Clear All

6. Enter readings for AVALANCHE GAS on Nov. 11, 1998

Hour Ending	Readings (MWh)
0200	50.0
0300	50.0
0400	50.0
0500	50.0
0600	50.0
0700	50.0
0800	50.0
0900	50.0
1000	50.0
1100	50.0
1200	50.0
1300	50.0

Reset Grid

Submit

Total MWh: 500.0

Contracts Batch Scheduler File Upload Settlement Contracts Customers Bids Power System Meter Readings Customers Bill About

# energy exchange™

Meter Reading



Hourly Meter Readings Monthly Meter Readings

Start Results

1. Select Year

1998

2. Select Asset Type

All Assets

3. Select Display Criteria

☐ All Assets

☐ Assets with missing readings

4. Retrieve Asset List

Retrieve

Select a Company

Cadillac Gen Co.

Clear All

Contracts

File Upload

Meter Readings

Bids

Bill

Batch Scheduler

Settlement

Power System

Customers

About





Meter Reading



Hourly Meter Readings Monthly Meter Readings

Start Results

5. Select Asset Name

Asset Name	Asset Type
AVALANCHE GAS	Unit

Select a Company

Clear All

6. Enter readings for AVALANCHE GAS for 1998

Month	Readings (MWh)
January	50.0
February	50.0
March	50.0
April	50.0
May	50.0
June	50.0
July	50.0
August	50.0
September	50.0
October	50.0
November	50.0
December	50.0

Reset Grid

Submit

Contracts Batch Scheduler File Upload Settlement Contracts Meter Readings Power System Bids Customers Bill About

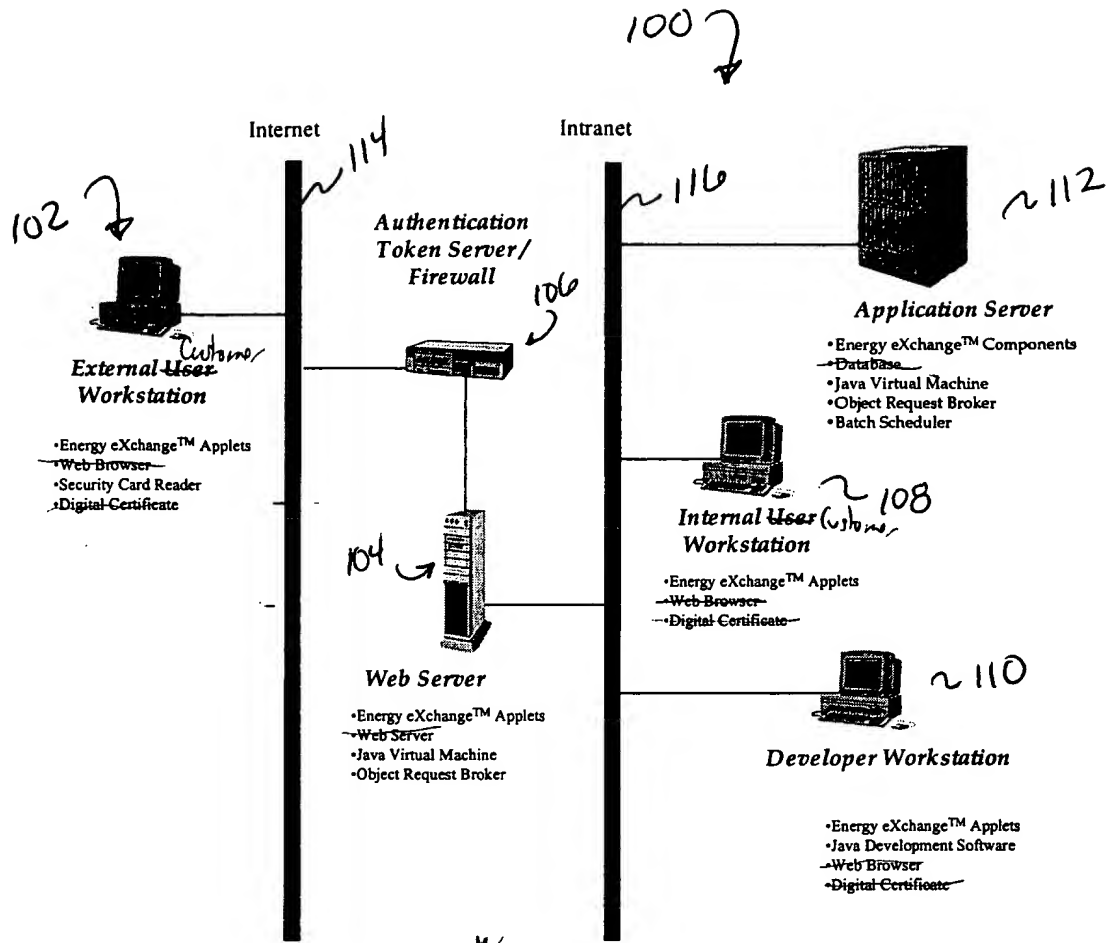


Figure 1: Technical Architecture



The diagram illustrates a network architecture with the following components and connections:

- External Connections:** Two T1 lines labeled "To OASIS Net" connect to CISCO-2514 routers. Other connections include "To Pay Roll / Human-Resources", "To EMS", "To Office", and "To Office".
- Core Network:** A central "FDDI Ring" connects two "3com FDDI" switches. These switches are linked to "CISCO-4500" routers and "3com 10baseT Switches 24".
- Security and Access:** Two "FireWall" units are positioned between the T1 lines and the internal network. A "3com 10baseT" switch is also connected to the top FireWall.
- Servers and Storage:**
  - Two "WEB Server" units are connected to the top "3com 10baseT" switch.
  - "Storage Tek Tape" and "8400 DEV" are connected to the top "3com FDDI" switch.
  - Two "8400" units are connected to the bottom "3com FDDI" switch, which also links to "Storage Works" and "Memory Channel".
  - Another "WEB Server" is connected to the bottom "3com 10baseT" switch.
- Handwritten Annotations:**
  - "106" with an arrow pointing to the top FireWall.
  - "112" with an arrow pointing to the bottom "8400" unit.
  - "\$ 78" at the bottom center.

### Figure 8: Typical Hardware Configuration

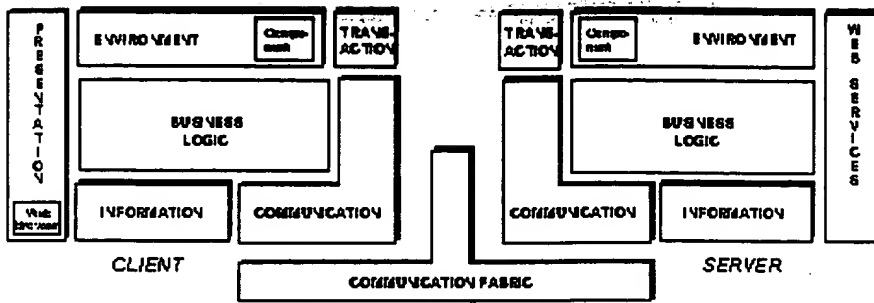
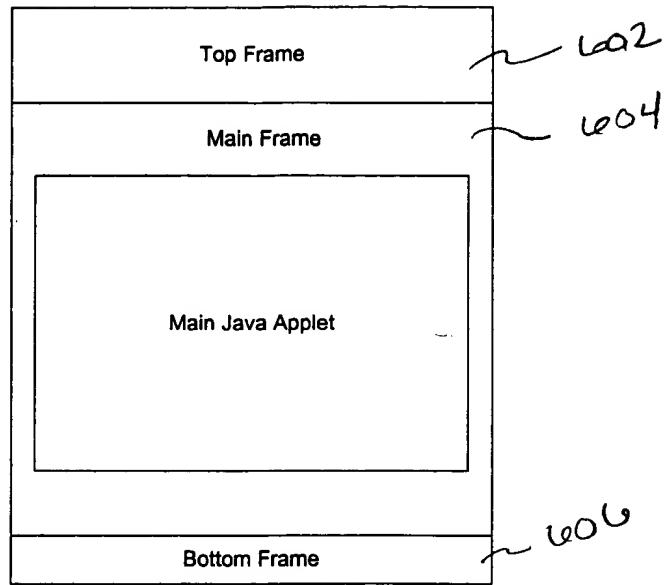


FIG. 79

09421713-102036



65020T ET 212460

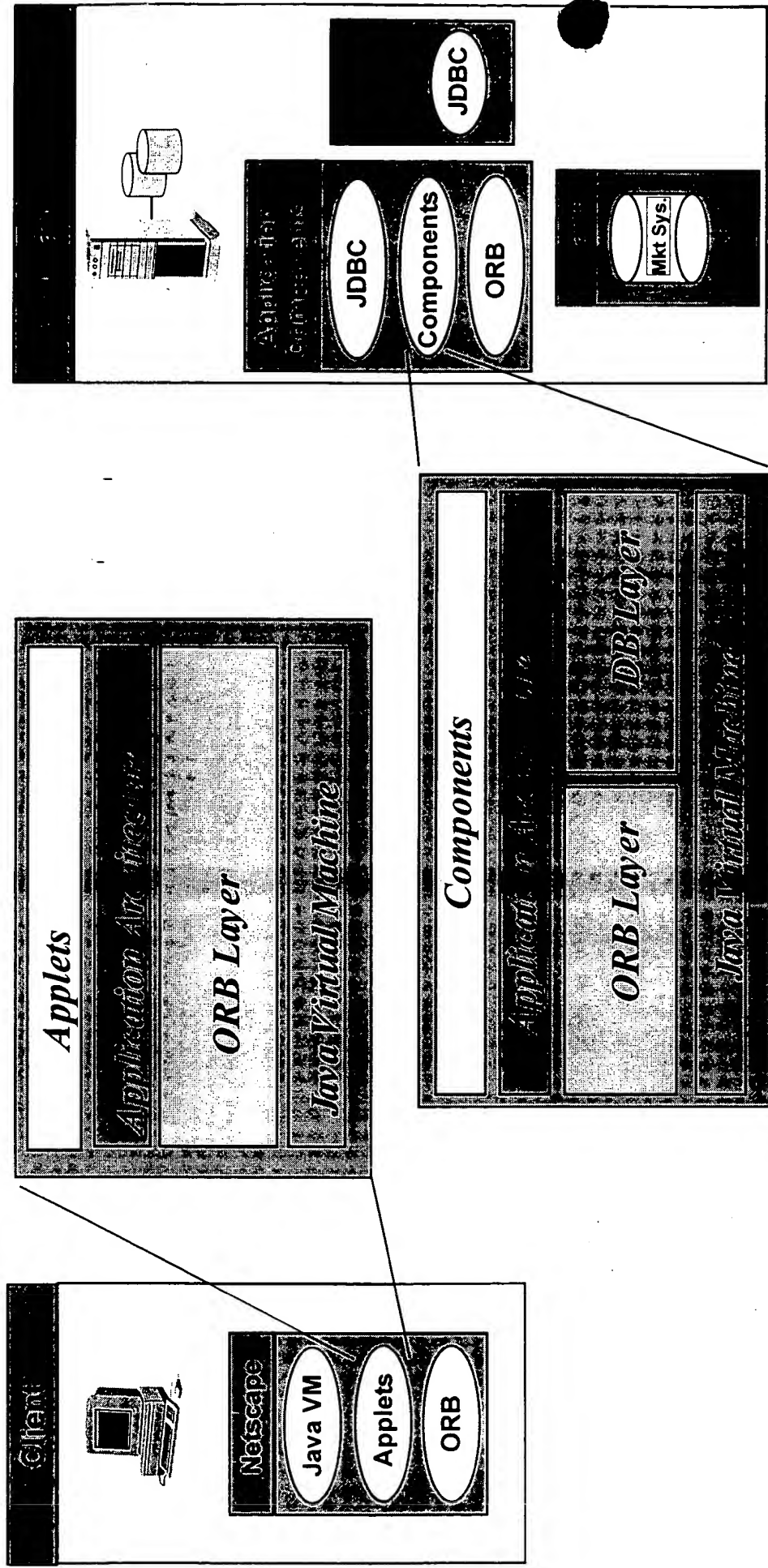


**Figure 1/- Basic UI Design**

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# Energy eXchange®

## Application Architecture



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Fig. 81

5



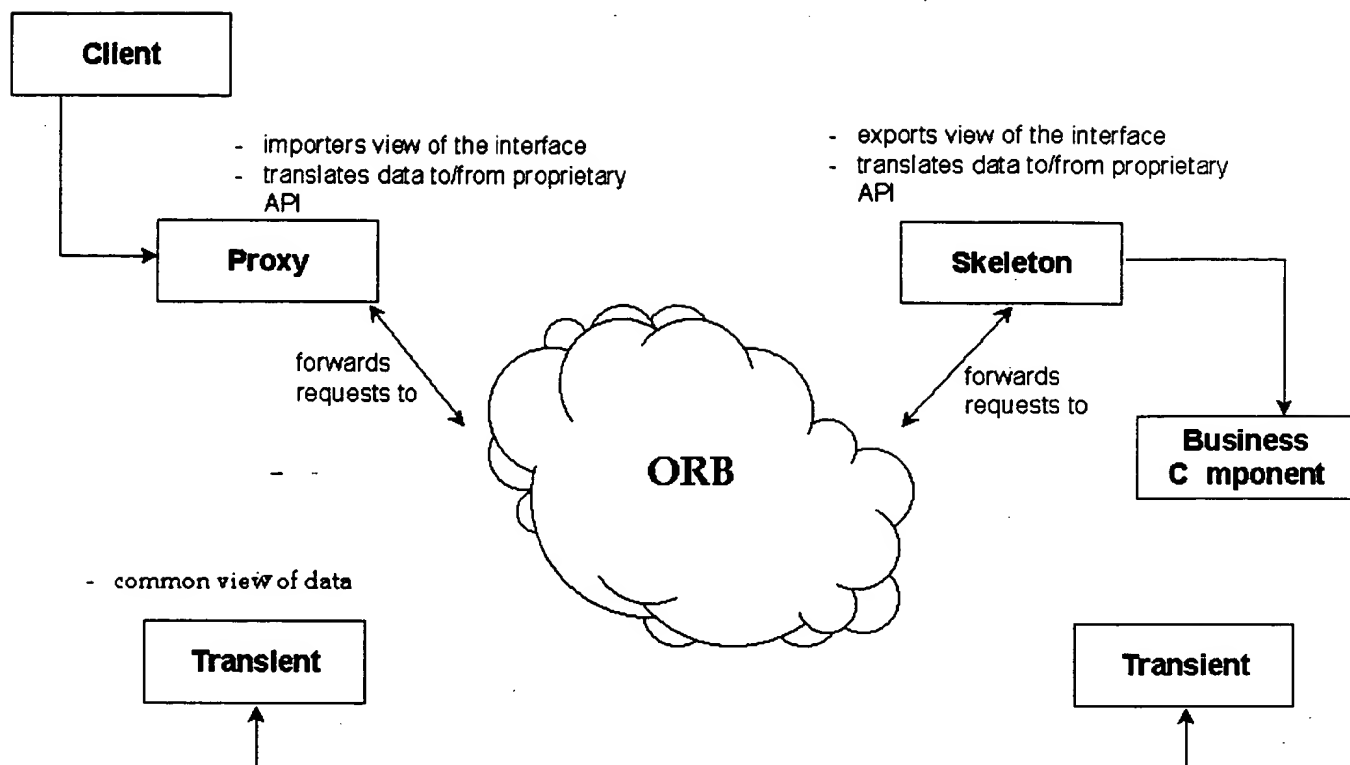


FIG. 82